

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An image correction method that provides an image signal with image correction by switching correcting methods according to the image signal, the image correction method comprising:

detecting an image movement area having a movement according to the an image signal by comparing pixels in a frame with pixels in another frame signal;

detecting a boundary area of the movement area;

detecting a flat area in the frame having a gradational change between adjoining pixels in the frame smaller than a predetermined threshold by comparing gradation of image signals corresponding to the adjoining pixels in the frame pixels; and

determining a first portion of the boundary area located in the flat area;

providing the first portion of the a boundary area of the image area having movement with a diffusion process, while not providing a second portion of the boundary area with the diffusion process; in an area having gradational change smaller than a predetermined threshold,

correcting a portion of the image signal corresponding to the first portion of the boundary area by a first correction method based on the diffusion process; and

correcting a portion of the image signal corresponding to the second portion of the boundary area by a second correction method different from the first correction method.

— wherein, the image correction is performed differently between the image area having movement of which the boundary area is diffused and other areas.

2. (Currently Amended) An image correction device having a comprising:

movement detecting means for detecting an image movement area having movement according to an image signal by comparing pixels in a frame with pixels in another frame signal; and an image correcting means capable of providing the image signal with image correction and switching correction methods according to a control signal, the device further including:

a movement boundary detecting means for detecting a boundary area of the image movement area having movement;

~~a gradational change detecting means for detecting a flat area in the frame having a gradational change smaller than a predetermined threshold; an image area with great gradational change by comparing gradation of image signals corresponding to adjoining pixels in the frame; pixels; and~~

~~combination determining means for determining a first portion of the boundary area located in the flat area;~~

~~a movement signal modulating means for providing the first portion of the boundary area of the image movement area having movement with a diffusion process, while not providing a second portion of the boundary area with the diffusion process; and in an area excluding the image area with great gradational change,~~

~~wherein, the image correcting means for correcting a portion of the image signal corresponding to the first portion of the boundary area by a first correction method based on the diffusion process, and correcting a portion of the image signal corresponding to the second portion of the boundary area by a second correction method different from the first correction method. switches correction methods according to an output from the movement signal modulating means.~~

3. (Currently Amended) The image correction device of ~~claim~~ **Claim** 2, wherein the movement signal modulating means ~~is formed of~~ includes a delay circuit that delays an output of the movement detecting means at least in a horizontal direction or in a vertical direction.

4. (Currently Amended) The image correction device of ~~claim~~ **Claim** 3, wherein the movement signal modulating means provides the boundary area of the image area having movement with a diffusion process by randomly switching an amount of delay fed from the delay circuit that delays the output of the movement detecting means in a horizontal direction or in a vertical direction.

5. (New) The image correction method of claim 1, wherein said determining of the first portion

of the boundary area comprises:

calculating the flat area by performing a logical NOT operation on an output from the gradational change detecting means; and

determining the first portion of the boundary area by calculating a logical conjunction of a result from the movement boundary detecting means and the calculated flat area.

6. (New) The image correction device of claim 2, wherein the combination determining means is operable to:

calculate the flat area by performing a logical NOT operation on an output from the gradational change detecting means, and

determine the first portion of the boundary area by calculating a logical conjunction of a result from the movement boundary detecting means and the calculated flat area.